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SEQUENCE LISTING

<110> IKEDA, Kazutaka et al.

<120> METHOD OF EVALUATING DRUG SENSITIVITY BY ANALYZING THE MU-OPIOID
RECEPTOR GENE

<130> 0649-1380PUS1

<140> US 10/594,597

<141> 2006-09-28

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<151> 2005-03-30

<150> JP2004-106136

<151> 2004-03-31

<160> 100

<170> PatentIn version 3.5

<210> 1

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 1

gttcaactgc taataacctta gcaggaatcg aaacagtgac cccatggcat rctaagagtc 60

actgtactct tcacagacgt gcactcacag aagaaaaaca c 101

<210> 2

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 2

actaaagtag aatgcttgct ccaaagaaaa gcgcatgttg cctgtttgag ytgtgaacta 60

aattaaccac tttttccgtg gatcactatt tttattttaaa g 101

<210> 3

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 3

atgttgccctg tttgagctgt gaactaaatt aaccactttt tccgtggatc rctatttttta 60

tttaaagaat gactgaggcc gggcgcggtg gctcacgcct g 101

<210> 4

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 4

ctgaggcccg gcgcggtggc tcacgcctgt aatcccagca ctttgggagg ytgaggcagg 60

cagatgacga ggtcaggaga tcgagaccat cctggctaac a 101

<210> 5
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 5
 actcgggagg tggagcttgc agcgagctga gatcgcgcca ctgcactcca rcctgggcga 60
 cagagtgaga ctctgtttta aaataaataa ataaataaaa t 101

<210> 6
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 6
 ataaataaaa taaaatataa tgataaagaa atgtttttat agagctctca rttttaattt 60
 ctgaagtgat agactgtgat aaagataacc taaataagaa a 101

<210> 7
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 7
 taattcttct tgctaatttc taggccacat acaacaggat ataaaaagcc maacaacaaa 60
 ggataaattc tttcatatgt gtgtaatcct ataaaccctc t 101

<210> 8
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 8
 taaaatatat gctaattcatt ttttcaactg aattcaaata ttatgcacat kaatattcat 60
 atatgtttta tatagaaaga aacacagaga gtgagggagg g 101

<210> 9
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 9
 aaaatatatg ctaatcattt tttcaactga attcaaatat tatgcacatt matattcata 60
 tatgtttta atagaaagaa acacagagag tgagggaggg a 101

<210> 10
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 10
 ctaatcattt tttcaactga attcaaatat tatgcacatt aatattcata yatgtttaat 60
 atagaaagaa acacagagag tgagggaggg agtccactat g 101

<210> 11
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 11
 aaaaatctat agtgtgttac tgagctccct ccaaagcaac tataaattta yaggagatga 60
 aacatatgat tcaccaggca taagaagaaa gtttccgtaa t 101

<210> 12
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 12
 tccacatgaa ctaagcacia aggaactgaa tgcaggcaga cagatttcag ytcaatataa 60
 gagaattgtt acattagtgc atggaagaat atgttttaag g 101

<210> 13
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 13
 tgtttctcat ttctttttca gaaaataaag gatcgctggt gttcccaaca kgtttgtagg 60
 gaagaaaatt ggagaaacat tattaccttt tcttagatgt t 101

<210> 14
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 14
 tagggtttca tcaagccaat gtattccctg ccagatttta aggagaaaaa kgcgctggaa 60
 aattgagtga tgtagcccc ctttcttatt tttcactgct a 101

<210> 15
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 15
 cccagcacc cagccccggt tcctgggtca acttgctcca cttagatggc racctgtccg 60
 acccatgctg tccgaaccgc accgacctgg gcgggagaga c 101

<210> 16
 <211> 101

<212> DNA
 <213> Homo Sapiens

 <400> 16
 aatgaaaagg cagaaaaatt agccccaaaa gagatgaaac tcttccgtcc rtcaccattg 60
 actctattgt gaacttatga aaaaggtagt tgagcaatat g 101

 <210> 17
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 17
 gaacttatga aaaaggtagt tgagcaatat gaaggccatg atgtggaatt raacacacac 60
 acacacacac acacacacac acacacatgc tggattctaa a 101

 <210> 18
 <211> 102
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (51)..(52)
 <223> "ac" at positions 51-52 repeats indefinitely

 <400> 18
 acttatgaaa aaggtagttg agcaatatga aggccatgat gtggaattaa acatgctgga 60
 ttctaaaatg tgtccttcct cctctcactc tcttgatcag tt 102

 <210> 19
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 19
 acagaggtaa tttatttagt ctggcttcac ttaacacaaa taggtcaaaa rcaatcacat 60
 tttgtaagta gtaatagttg gagaaatgtg tgaagaatag g 101

 <210> 20
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 20
 ggtcaaaaga taaataagaa ttattttata accataagaa aggaagaaca kctataaaca 60
 aaagtcatat atgcaacata aaagaatagg tgagctgcca g 101

 <210> 21
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 21
 ttctggaagt tccataaaaa tcaactctaatt ggggtcaaaca tcgatggttc kcagaagaac 60
 acaatttttt tcaaaaacga atagcattgt aaattcattt g 101

<210> 22
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 22
 tacaacaaaa tacaggcaag gtgagtgatg ttaccagcct gaggggaagga rggttcacag 60
 cctgatatgt tggatgatgtc ataagcaaag cagtatttat g 101

<210> 23
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 23
 tttatatcaa tatagacctc atggaggatc tagctcatgt tgagaggttc rtttttgttc 60
 cctgaacgaa agcttaattgt gatcgaagtg gactgcaaaa t 101

<210> 24
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 24
 ttccacaatt tctttatagc cttaagttag ctctgggtcaa ggctaaaaat saatgagcaa 60
 aatggcagta ttaacacctt atgacataat taaatgtttgc t 101

<210> 25
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 25
 ctctaattac tattattaaa gcactttctt gacattttta tcaaaatagc rgggtcaagaa 60
 gttaggagat gctctgtatt tggtttaact gtgaactata t 101

<210> 26
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 26
 acatcactct caaaagttga tctcagtttt ttttacaaga catctgtgga ragttaattt 60
 gggaaagtaa ttgtttcaat tcaatgggaa aaaaaactca a 101

<210> 27

<211> 130
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(80)
 <223> n represents 11 to 15 repeats of "gt"

<400> 27
 atcaaaatgg ctattctttc agttctacag tttaaaaaga aaatgggttcc nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn gcgtgtgata taggcatgtc tctttttgca tgtatggaat 120
 tagagtaaata 130

<210> 28
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 28
 aaagaaaatg gttccgtgtg tgtgtgtgtg tgtgtgtgcg tgtgatatag rcatgtctct 60
 ttttgcattg atggaattag agtaaatgta ggtttaaaat t 101

<210> 29
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 29
 tgatataat cataacatat tatatatatt attatgatat atatcataac rtgtattatc 60
 atattatgat atatatcata acatatatat tatcatatta c 101

<210> 30
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 30
 acatgtatta tcatattatg atatatatca taacatatat attatcatat yacgatatat 60
 atcataacat attatatatt atcatattat gatatatatc a 101

<210> 31
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(594)
 <223> n at positions 51 to 594 represents 2 to 17 repeats of
 "attatcatattatgacatatatcataatata"

<400> 31
 tatgacatat cataatatat attatcatat tatgacatat cgtaatatat nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatcaaa 600
 aagtcacaga gctcatgcaa gccagtcacat cccattgcc agtg 644

<210> 32
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 32
 aatatattat atcatattat gacatatatc ataatatata ttatcatatt rtgacatata 60
 tcataatata tatcaaaaag tcacagagct catgcaagcc c 101

<210> 33
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 33
 taaaatgtac tctttatttc tcaactggttt ctccatactg caggctcccc rcatattatt 60
 ttcttttttt aactcagctc agaatcctta tgccttttga a 101

<210> 34
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 34
 atctaggtag acagccaagt cagatggccc atgcctagaa gctctccatt ytgaactttt 60
 gtcagcattg attaaaagaa tcaaatacct tgtagttatc t 101

<210> 35
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 35

cagccaagtc agatggccca tgcctagaag ctctccattt tgaacttttg ycagcattga 60
 ttaaaagaat caaataacctt gtagttatct atgatgatac a 101

<210> 36
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 36
 ttatgtggac tcaaccacg tatccagtag atgggaaaaa acaaaagcca raataagttt 60
 tttagtgttt ctttctgatg aagtttcatg tttgcttgta a 101

<210> 37
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 37
 aacaaaagcc aaaataagtt ttttagtggt tccttctgat gaagtttcat rtttgcttgt 60
 aataatctcc atttctcaaa tattatgttc cataatagac a 101

<210> 38
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 38
 atgcttttca tgggctagga tggtttctcc caagagatga catagtattg ytttgctca 60
 tcaggctggt tctcagcaat cattgtttct gcttaatacc a 101

<210> 39
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 39
 gtccttagta cgaattatct ggcattgtga gagcaacttt gtcttcaagt rggacctgat 60
 ctatcttttt ccacaaatgt catgtgtgtg aacaagtttc t 101

<210> 40
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 40
 attctaaggt aaataataaa taaggtcatt gtcaacgttt ttcatcctaaa rccatttttt 60
 aacgtaaatt tgctagaacc accttccaat tccaaggcaa g 101

<210> 41
 <211> 101
 <212> DNA

<213> Homo Sapiens

<400> 41
 taataaataa ggtcattgtc aacgtttttc attcaaaacc attttttaac rtaaatttgc 60
 tagaaccacc ttccaattcc aaggcaagga gagacattac a 101

<210> 42
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 42
 ctcaactgga tgggctaagg tttctgataa aatctgaaga taaagaaaat sgaatattct 60
 gcttttttct tccttctaatt ttcacccttg cctaaggatg a 101

<210> 43
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 43
 tttttcttcc ttctaatttc acccttgcct aaggatgaga tttcttccca sgttggatc 60
 ccagaaatgc agactgtagc tatggggcgg aagctttgtt t 101

<210> 44
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 44
 ttgcctaagg atgagatttc ttcccagggtt ggtatcccag aaatgcagac ygtagctatg 60
 gggcggaagc tttgtttctt tacctgatca ctgctgtgg a 101

<210> 45
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 45
 atttcttccc aggttggtat ccagaaatg cagactgtag ctatggggcg raagctttgt 60
 ttctttacct gatcattgc tgtggaaatt ctagcttatt g 101

<210> 46
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 46
 tccctctttc cttgccaatc attagaaagg aaagaagagg aaagagactc kctggagcac 60
 tggtgagtct ctaggaccct gctatcctat cccaacaggg c 101

<210> 47
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 47
 actggtgagt ctctaggacc ctgctatcct atcccaacag ggctgtcaga mggagaactc 60
 ctaatgtggc catttgaaac acttctcaac attgaaatag a 101

<210> 48
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 48
 gaagtttttaa aataacctct tctaagacac ggctatgagt aggtaagaga kcattcattc 60
 ctttcaataa tatgactgtg ttgataaaac tgataaccat t 101

<210> 49
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 49
 aactgataac cattcacttg caaatgttat tattgaataa gtctcactta kctcatttaa 60
 tattacccaa aagatgctaa caaattctgt ttccacatt g 101

<210> 50
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 50
 gccaaagcaa cctaagaata ggacatggta gcttaagttt ttcagcttct yaactggcca 60
 cacacacaca agttgtgttt gtacaattct tgagggtcaat c 101

<210> 51
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 51
 caaacaatat tactgtgttc taagcgcttc tgttactcga aaggggtctg rtccagaccc 60
 caaaagaggg ttcttggacc tcatgcaaga aagaattcag g 101

<210> 52
 <211> 101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (51)..(51)

<223> "a" repeats indefinitely

<400> 52

ggtttgttt aagtaagcca ctttcctccc tgcaagttcc cacggagcag aggaggaaac 60

tttttcctgg gagcccacta atcacacagt gaacaaaagg c 101

<210> 53

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 53

taagaaagca aaggaataaa gaatggctac tccataggca gcgtagcccc magggctgct 60

ggttggctat ttttgtggtt atttcttgat tatatgctaa a 101

<210> 54

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 54

gtcgctctgg ttcaaacc tctgacactt gaattacaaa tataaggacc rttgacactg 60

agattttaag ggaggaaaaa cagattgaca gtggactaaa g 101

<210> 55

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 55

gcaaggtaag aatcaagtag aatgataaa gggcaaggaa aaaagatgaa mgcttactca 60

tattaaccat tctaccattg gaattatttg ccaacacacc t 101

<210> 56

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 56

gacagtggg aaaattcatc ttcatttgt cacatgcact gtaataggaa kgtttagcaa 60

aaaaaacctt ccagagaaag gtggtttcca atattaccta c 101

<210> 57

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 57

gcaaaaaaaaa cttccagag aaaggtggtt tccaatatta cctacaactt sctttgcaat 60

ttgatttttg aaaggaccta aaagttgaaa acaggctatc a 101

<210> 58
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(372)
 <223> n at positions 51-372 represents a sequence having 322bp (SEQ ID NO: 99) or deletion

<400> 58
 taaatgtttt atttaagttt gcattgccca ctaaggctag acattttttt nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nngataaatt cacagggtta caaaatacca aacggaaatg agataagtgg 420
 ta 422

<210> 59
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 59
 ggccccggcta gacatttttt gataaattca cagggttaca aaataccaaa yggaaatgag 60
 ataagtggta taaaccacag aagatatagg agaagagaaa a 101

<210> 60
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> n represents "a" or deletion

<400> 60
 tgagataagt ggtataaacc acagaagata taggagaaga gaaaaaaaaa ngaggaaata 60
 aagaagacaa ctcttttcct aagagtctgg gtaaaattga a 101

<210> 61
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 61
 ggaaataaag aagacaactc ttttcctaag agtctgggta aaattgaaca yagccatatt 60
 cactgaacaa catgagtgag cttcattaat ttaagcacag c 101

<210> 62
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 62
 ccatattcac tgaacaacat gagtgagctt cattaattta agcacagcaa ractgcttta 60
 attaacaaga ccagagagaa gggagaggag actacatttg t 101

<210> 63
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 63
 gtgacatatt agactttctta ctttcccaa ataaaaaagt gcctgctggg ygcggtggct 60
 cacgcctgta attccagcac tttgggaggc cgaggcgggc g 101

<210> 64
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 64
 gcgcggtggc tcacgcctgt aattccagca ctttgggagg ccgaggcggg yggaacacaa 60
 ggtcaggaga tcaagaccat cctggccaat atggtaaaac c 101

<210> 65
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 65
 atacaaaatt aggaaggcgt ggtggtgcac gcctgtaatc ccagctagtc rggaggctga 60
 ggcaggagaa ttgcttgaac tggggaggcg gaagttgcag t 101

<210> 66
 <211> 101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> "a" repeats indefinitely

<400> 66

caagatcgca gcattgcact ccagcctggg caacagaatg agattgtctc agtgccacat 60
gccatgctat gtgccc aaag tttccttcac acaacacagc c 101

<210> 67
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 67
ttagagccag tcagaattca atctccaata tcctgactag cacaagaaat ycataggttg 60
attcttggtt tcctgcatct ctgcagggtg caaacctgat t 101

<210> 68
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 68
ttgtgtgttt tcttaataaa ctttaccac ttattaaaag aataaaatga rgggtggagtt 60
aattctgact acgggattcc tttttcactt ttataatgaa c 101

<210> 69
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 69
tccttctaac taaatcttat cataagcaaa tctatgcacc aaattattta rtacaattcc 60
taataacagc tgaaggacca tttatttgaa gcaatgttca c 101

<210> 70
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 70
ttagtacaat tcctaataac agctgaagga ccatttat tt gaagcaatgt wcaccatagc 60
aaaattccag tgaagtctaa gaactgggac agtccgttga g 101

<210> 71
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 71
ttgccccatg aatgtgcaca tgcatattaa aatatgggca cctcttttaa ktcttttttt 60
tctcataata agtttgaaac tcacagtagg aaattgagag a 101

<210> 72
<211> 101
<212> DNA

<213> Homo Sapiens

<400> 72
 tggttggttct cgaactagct ggtttcccag agacagctgg agactgagca mataaagaca 60
 tcattgagga aaaaggctac ctgttacctc atggagagct g 101

<210> 73
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 73
 catggagagc tgaaggctctg ataaatggga actgccaggt aatagctatg mtatttctga 60
 cataaattta aaaactagta ttgtttcttc tagctctgtt t 101

<210> 74
 <211> 101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> "a" repeats indefinitely

<400> 74
 taatgttaaa ttggatctat aaacataagt caatttggct ctattatgtc agagaatagg 60
 agttttaact tatatctgtg ttttattaat attttgaagt a 101

<210> 75
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 75
 ataagtcaat ttggctctat tatgtcaaaa gagaatagga gttttaactt wtatctgtgt 60
 tttattaata ttttgaagta taggaacctc atgggtgtagc a 101

<210> 76
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 76
 gtatgtgaca ggggctgcat gcaccggtgg tctgggagga acagaacagg rcaggaggtt 60
 cttctataca atagagaaca gaacaatgtt cttctataca a 101

<210> 77
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 77
aggcgggccc aggcctgggt tcgggcctgg cgctgagctg cctgtatttg rttttacttc 60
cttgttggtt ttactgaata tgaaacaata taaaacaatg t 101

<210> 78
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 78
tggttttact tccttgttgt ttttactgaa tatgaaacaa tataaaacaa kgtgagaggg 60
tctttctctc ctctcaatgt caacatcata tatgattgga g 101

<210> 79
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 79
gctggtttgg ttgaagtttc tcttatcagt caggcacttt gcattttaag ygtactttac 60
caccgacacc ctcccccccc agcacacaca cacacacaca c 101

<210> 80
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 80
tcaggcactt tgcattttaa gcgtacttta ccaccgacac cttccccccc magcacacac 60
acacacacac acacacacac acacacaaca tagtgaaatg g 101

<210> 81
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(52)
<223> "ca" at positions 51-52 repeats indefinitely

<400> 81
ggcactttgc attttaagcg tactttacca ccgacaccct cccccccag caacatagtg 60
aatggaccc gtgggaatta tatgatagtt gtaatcaaaa ta 102

<210> 82
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 82
gcactttgca ttttaagcgt actttaccac cgacaccctc cccccccagc rcacacacac 60

acacacacac acacacacac acaacatagt gaaatggacc c 101

<210> 83
 <211> 104
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(54)
 <223> n at positions 51-54 represents "tctc" or deletion

<400> 83
 tctggaagta aacttaaaat gaaaattaga atttgctttc aattatacta nnnntatcta 60
 aatcttaatt tgaaatttaa attattttgt ctctacccaa acca 104

<210> 84
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 84
 tatactatct ctatctaaat ctttaattga aatttaaatt attttgtctc yacccaaacc 60
 atcgatttca tggaaatggt taaattttct tttttttttt t 101

<210> 85
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 85
 ctttaattga aatttaaatt attttgtctc tacccaaacc atcgatttca yggaaatggt 60
 taaattttct tttttttttt tttttttgat ggagtctcac t 101

<210> 86
 <211> 104
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(54)
 <223> n at positions 51-54 represents insertion of "tttc" or none

<400> 86
 tttttgtct ctacccaaac catcgatttc atggaaatgt tttaaatttc nnnntttttt 60
 tttttttttt ttgatggagt ctactctgt cgcccaggct ggag 104

<210> 87
 <211> 101
 <212> DNA

<213> Homo Sapiens

<400> 87
aggctggagt gcagtggctc aatcttggct cactgcaacc tctgcctccc rggttcacac 60
cattctcctg cttcagcctc ctgagtagct gggactacag g 101

<210> 88
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 88
attctcctgc ttcagcctcc tgagtagctg ggactacagg tgcccgccac macacctggc 60
taattttttg tatttttagt agagatgggg tttcaccacg t 101

<210> 89
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 89
acaacacctg gctaattttt tgtattttta gtagagatgg ggtttcacca ygtagccag 60
gatggtttcg atctcctgac ctcgtgatct gcctgcctcg g 101

<210> 90
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 90
atccccatca atttaatagg aattaagtta gaaatactag tatatatatt ycctttatat 60
actaattgta tatccatata aaagcattag taccattata t 101

<210> 91
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 91
agtatatata ttccctttat atactaattg tatatccata taaaagcatt mgtaccatta 60
tatgaaagta tatatgccat tccataaaaa tatatctacc a 101

<210> 92
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 92
ggaattaaag aaaaaatgcc tgttttcact aagtcatcct tcccctggca rtacatttcc 60
tgaactttta catacttaaa tagccagtta tgaaaatgta a 101

<210> 93
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 93
 acatttttaaa cagactcctg cccacaaact atttttcctc tccaggaata rgaatggcaa 60
 ctgaattggt ccttctttat tctatagctt taagtcaaac c 101

<210> 94
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 94
 gaatggcaac tgaattgttc cttctttatt ctatagcttt aagtcaaacc yaacataagc 60
 aatcaaccct tccaccatt gtcctctttc tagctgctta t 101

<210> 95
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 95
 ttgggggtga aataaaagat agacccctgc tgctctgcac gtagattcag yttgtatgcc 60
 aggtgacat ttaatttac agtagtccag acacctaaac a 101

<210> 96
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 96
 ggggtgaaat aaaagataga cccctgctgc tctgcacgta gattcagttt statgccagg 60
 gtgacatttt aatttacagt agtccagaca cctaaacagg a 101

<210> 97
 <211> 101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> "t" repeats indefinitely

<400> 97
 caacattggt ttccttttga tggctctggga gtttttctat aagtttttgg tctcttcatt 60
 agtgtgttag ttccatcatc atgtctgttt actattgaaa a 101

<210> 98
 <211> 101

<212> DNA
 <213> Homo Sapiens

<400> 98
 ttgaaaatat aggcagctaa atccactgat agtctacttt ttttaaaaat ktgttcttga 60
 tgttttgagc aggaaaatta tttgcaagaa acaaagagtt t 101

<210> 99
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 99
 tttttttttt tttttttttt tttttgagac agagtctcgc tctgtcgccc aggctggagt 60
 acagtggcgg gatctcggct cactgcaagc tccgcctccc gggttcacgc cattctcctg 120
 cctcagcctc ccaagtagct gggactacag gcgcccgcga ctacgcccgg ctaatttttt 180
 gtatttttag tagagacggg gtttcaccgt tttagccggg atgatctcga tctcctgacc 240
 tcgtgatccg cccgcctcgg cctcccaaag tgctgggatt acaggcgtga gccaccgcgc 300
 ccggcccggc tagacatttt tt 322

<210> 100
 <211> 101
 <212> DNA
 <213> Homo sapiens

<400> 100
 ggatggtttc tccaagaga tgacatagta ttgcttttgc tcatcaggct rtttctcagc 60
 aatcattgtt tctgcttaat accagctcct agtacgaatt a 101